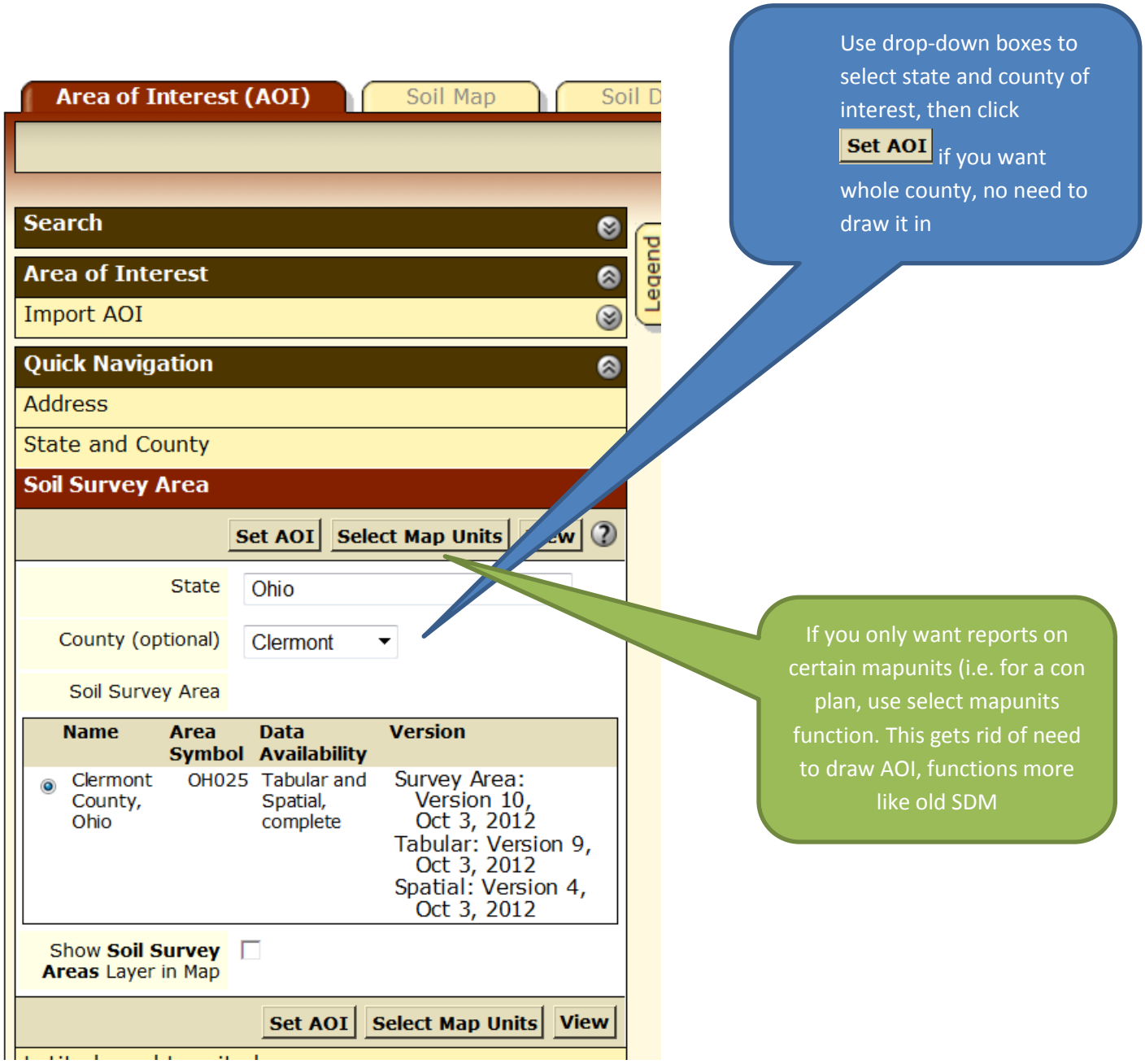
How to WSS for County Data like SDM

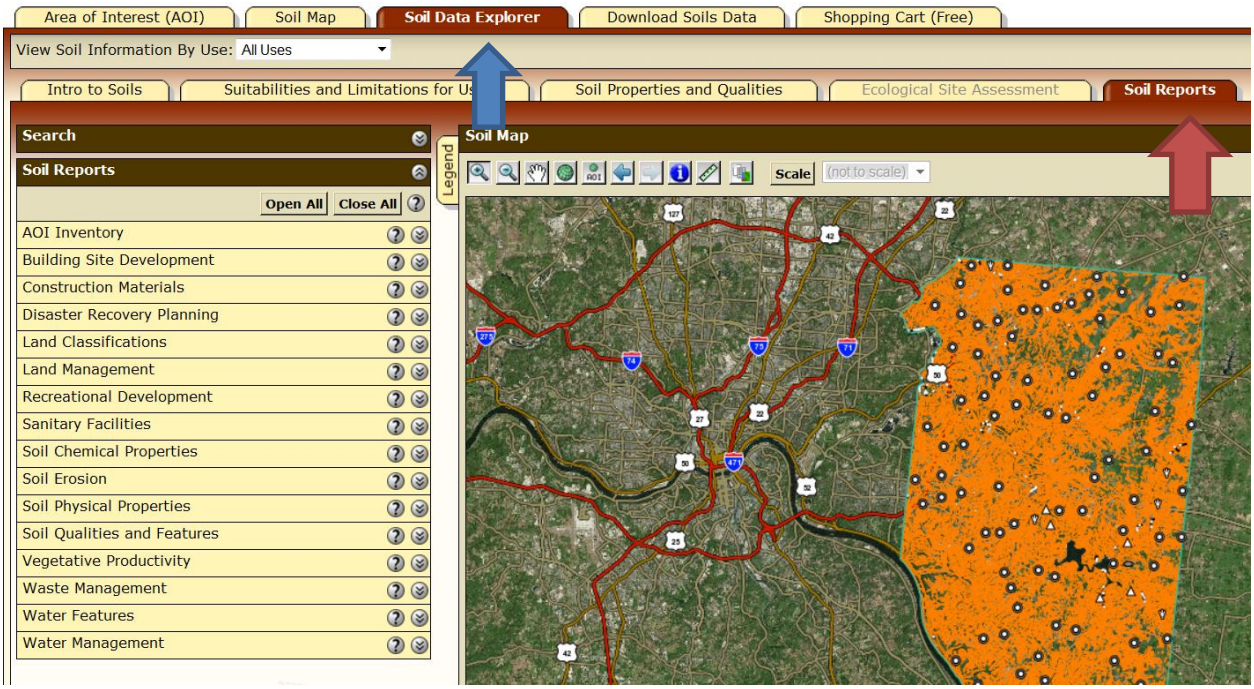
1. Use Soil Survey Area option on Quick Navigation Pane on left.



The rest of this document discusses generating the county-wide reports and mapunit specific reports in greater depth.

Navigating the WSS to generate county-wide reports.

After selecting the county/state desired and setting the AOI (red and blue callouts on page 1), you can skip to the Soil Data Explorer Tab, then to Soil Reports

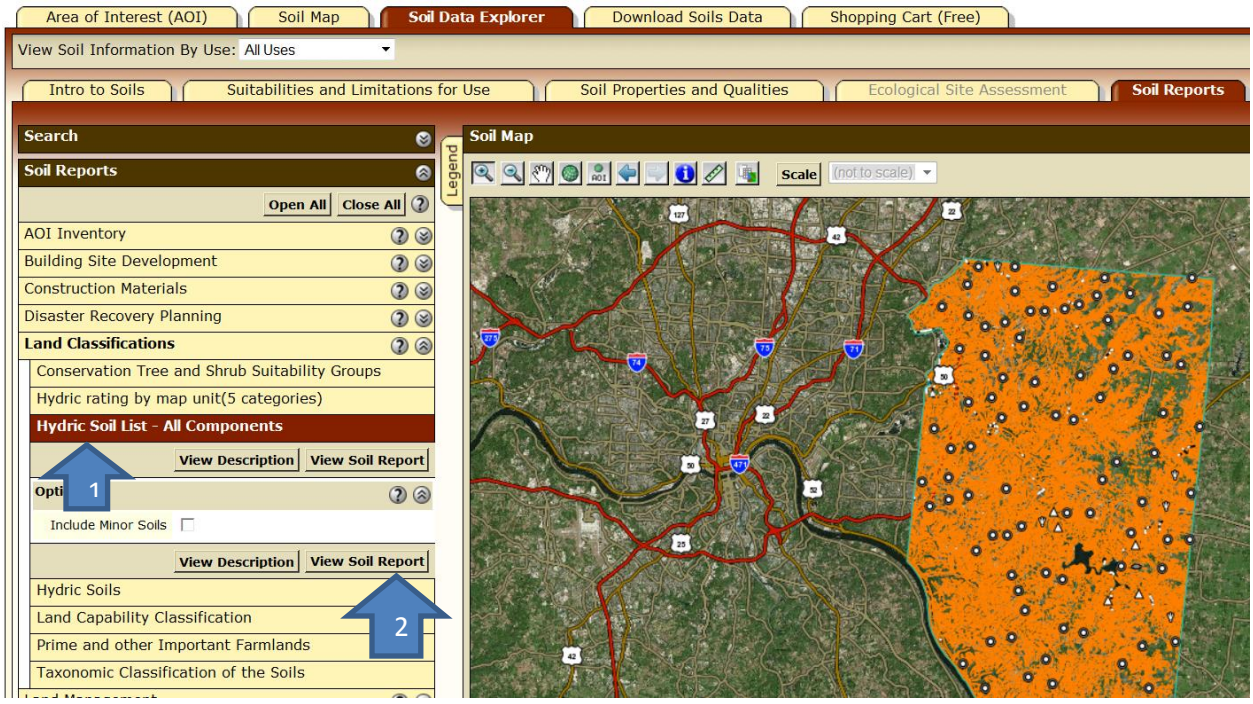


Below are a list of commonly used county-wide reports;

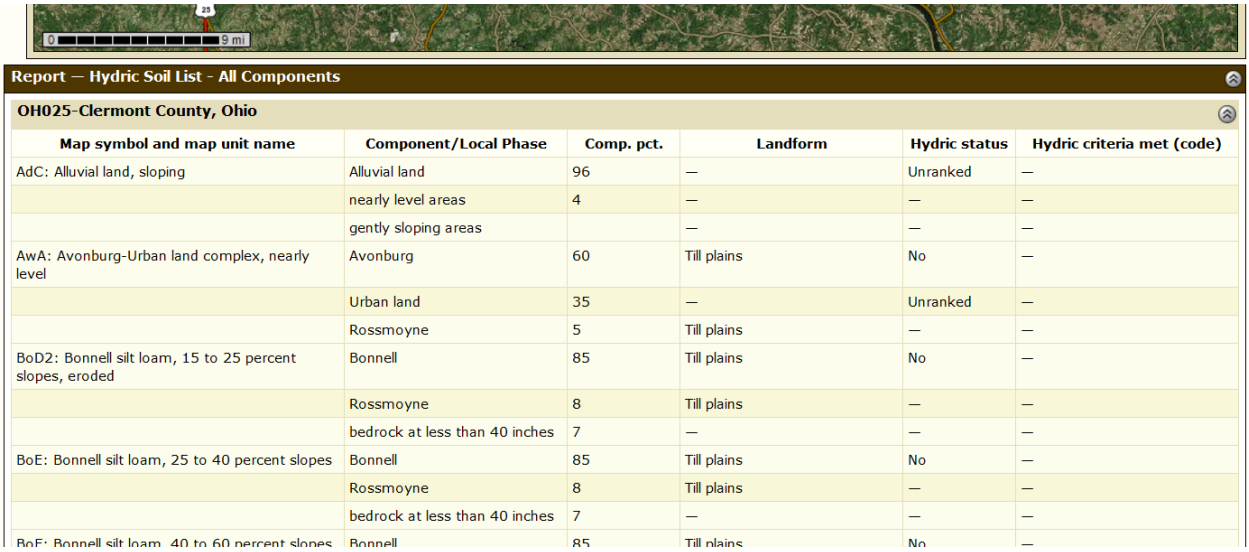
Commonly used County-Wide Reports in WSS	
Main Report Tab	**Sub-Report**
Land Classifications	Prime and other Important Farmlands
	Hydric Soils[1]
	Land Capability Class
Soil Physical Properties	Engineering Properties[2]
Soil Erosion	RUSLE2 Related Attributes[3]
[1]There are 3 hydric reports options- Hydric Soil List all Components is most informative	
[2]HSG, Texture by Horizon, Unified & AASHTO Classes, Frags, Sieves, Liquid Limit, Plasticity Index	
[3]HSG, Kf, T, and Particle Size Separates	

Example of Generating county Hydric soils list below; other reports from table above similar;

Click Report (1st arrow), then view soil report (2nd arrow)



Results will appear below your map and look something like this;



Report — Hydric Soil List - All Components

OH025-Clermont County, Ohio

Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
AdC: Alluvial land, sloping	Alluvial land	96	—	Unranked	—
	nearly level areas	4	—	—	—
	gently sloping areas		—	—	—
AwA: Avonburg-Urban land complex, nearly level	Avonburg	60	Till plains	No	—
	Urban land	35	—	Unranked	—
	Rossmoyne	5	Till plains	—	—
BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoE: Bonnell silt loam, 25 to 40 percent slopes	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoF: Bonnell silt loam, 40 to 60 percent slopes	Bonnell	85	Till plains	No	—

These reports can be then added to your shopping cart and saved as .pdf for future use.

See next page for a more detailed description of how to read this report.

Excerpt from same report above:

Mh: Medway silt loam, overwash	Medway	97	Flood plains	No	—
	Sloan	3	Depressions,swales	Yes	2
	Shoals		Flood plains	—	—
	darker colored surface layer		—	—	—
	thicker overwash		—	—	—
Ne: Newark silt loam	Newark	94	Flood plains	No	—
	Melvin	3	Depressions,swales	Yes	2
	fragic properties in subsoil	1	—	—	—
	frequently flooded areas	1	—	—	—
	frequently ponded areas	1	—	—	—
	dense soil layers in substratum		—	—	—
No: Nolin silt loam, occasionally flooded	Nolin	90	Flood plains	No	—
	Elkinsville	5	Terraces	—	—
	short slopes of 10-25%; loam or sandy loam throughout	5	—	—	—

This report gives the major and minor components of a map unit, and it is important to see if all components are hydric or just some.

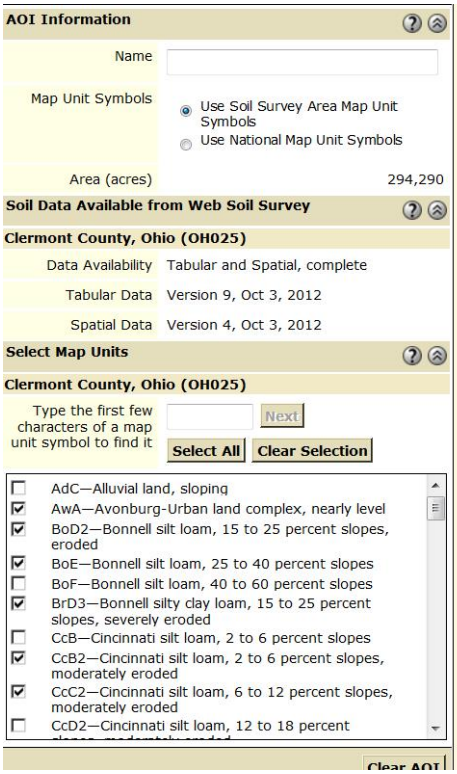
Take Medway (Mh) for instance. 97% of the map unit is non-hydric, however, a small amount (3%) of the map unit is Sloan in depressions. If you were using this report for an off-site wetland determination, you would know that you should be looking for depression areas that would have the Sloan component.

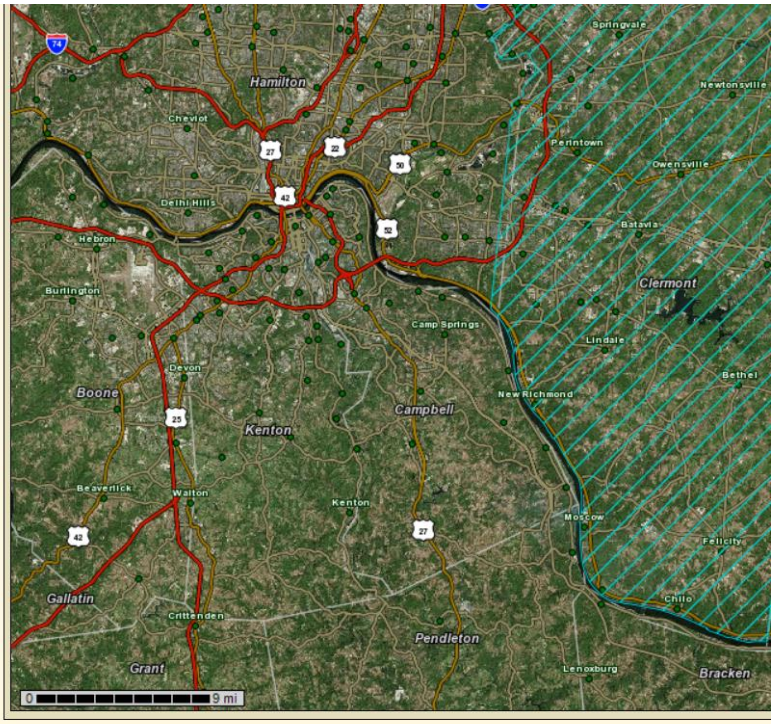
On the other hand, Nolin (No) is 90% and is non-hydric. Elkinsville, the other named component, is non-hydric also. If a field was being reviewed an off-site wetland determination, you would know this map unit is clear of hydrics.

The other reports such as prime farmland are not discussed in depth here as they are fairly straightforward. They are generated in the same manner as the hydric report above.

For Printing Instructions, see page 7.

To generate reports for individual map units only, refer to page one to set state and county, then use the Select Map Units button. The results should look as pictured below;





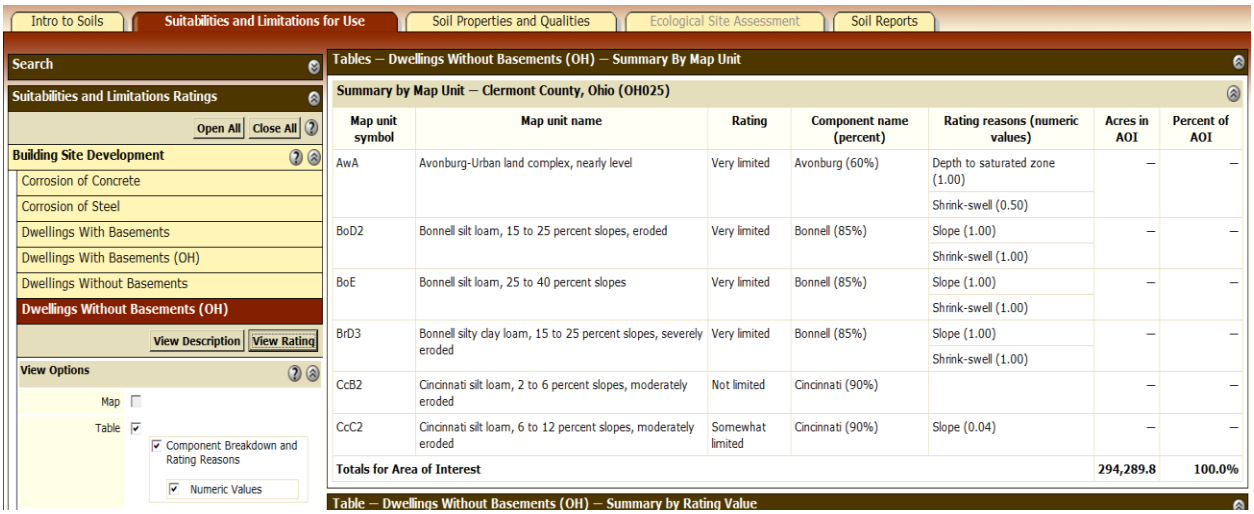
After you check off on the map units you want to generate reports on, click on Soil Data Explorer tab and run the report you want (same process as on pages 2 and 3). This time the report will generate only on the selected map units from above screen shot. For printing instructions, see page 7.

Report — Hydric Soil List - All Components

OH025-Clermont County, Ohio

Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
AwA: Avonburg-Urban land complex, nearly level	Avonburg	60	Till plains	No	—
	Urban land	35	—	Unranked	—
	Rossmoyne	5	Till plains	—	—
BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoE: Bonnell silt loam, 25 to 40 percent slopes	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BrD3: Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
CcB2: Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded	Cincinnati	90	Till plains	No	—
	Rossmoyne	10	Till plains	—	—
	severely eroded areas		—	—	—
CcC2: Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded	Cincinnati	90	Till plains	No	—
	severely eroded areas	5	—	—	—
	Edenton	5	Hills	—	—
	slightly eroded areas		—	—	—

It is worth noting that Suitabilities and Limitations can be run in the same manner as the Soil Reports, simply select the Suitabilities and Limitations Tab instead of the Soil Reports. Here you can generate soils ratings based on properties for a multitude of purposes. In the following example I used Building Site Development – Dwellings Without Basements. This is a good interpretation to run for siting structures such as Ag Chemical Handling Facilities. For structures that will extend into the ground like a manure facility, perhaps Buildings with Basements would be a better choice. For printing instructions, see page 7.



Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AwA	Avonburg-Urban land complex, nearly level	Very limited	Avonburg (60%)	Depth to saturated zone (1.00)	–	–
				Shrink-swell (0.50)		
BoD2	Bonnell silt loam, 15 to 25 percent slopes, eroded	Very limited	Bonnell (85%)	Slope (1.00)	–	–
				Shrink-swell (1.00)		
BoE	Bonnell silt loam, 25 to 40 percent slopes	Very limited	Bonnell (85%)	Slope (1.00)	–	–
				Shrink-swell (1.00)		
BrD3	Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded	Very limited	Bonnell (85%)	Slope (1.00)	–	–
				Shrink-swell (1.00)		
CcB2	Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded	Not limited	Cincinnati (90%)		–	–
CcC2	Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded	Somewhat limited	Cincinnati (90%)	Slope (0.04)	–	–
Totals for Area of Interest					**294,289.8**	**100.0%**

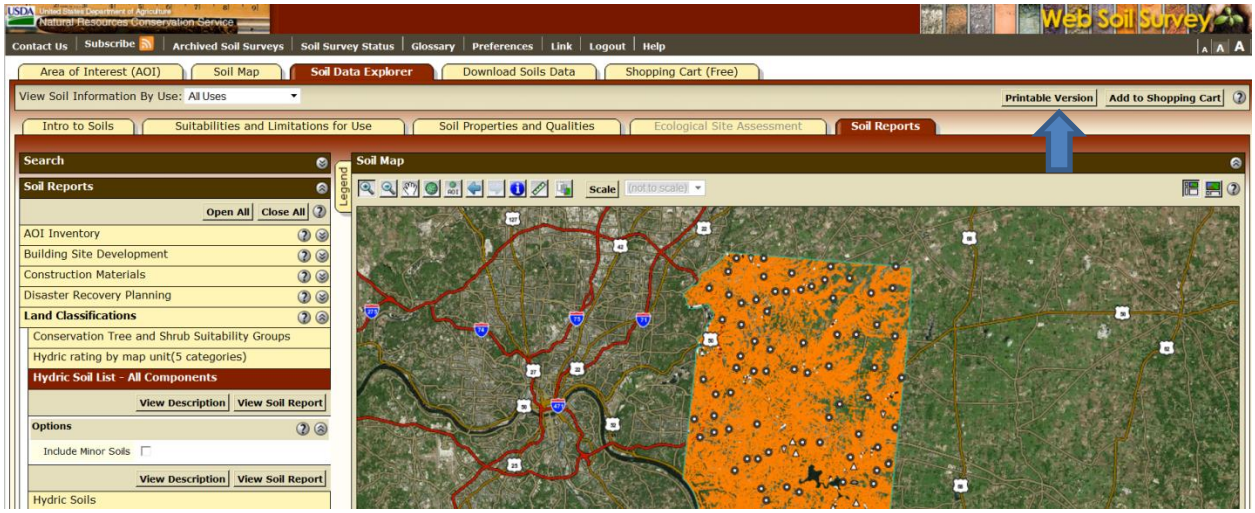
Notice how the report gives not only a rating for the activity in the 3rd column, but reasons for the rating in the 5th. These can be helpful when assisting a landowner with siting practices.

Once you have the soils information you want in the report there are 2 options for to get the data.

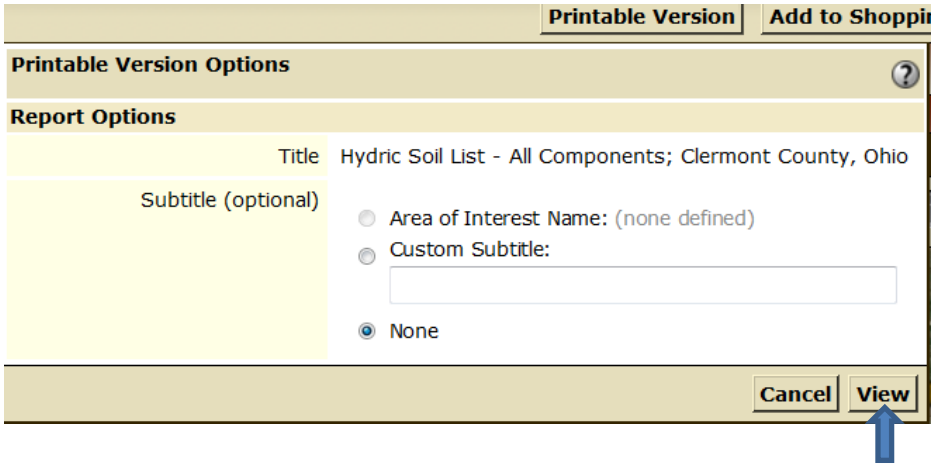
1. Print/save the report as a single file, or;
2. Add the report to a full-blown soils report and get as .pdf for digital file or printing

Print/save the report as a single file

Once you have the report you want, (I will go back to the county-wide hydric list in this example), go to the upper right hand section and click on **Printable Version**. See below for larger view.



Now you can give a custom subtitle if you want, but the title says it all in this case. Click view.



The report will then open as a .pdf for printing or saving.

Report—Hydric Soil List - All Components

Hydric Soil List - All Components–OH025-Clermont County, Ohio					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
AdC: Alluvial land, sloping	Alluvial land	96	—	Unranked	—
	nearly level areas	4	—	—	—
	gently sloping areas		—	—	—
AwA: Avonburg-Urban land complex, nearly level	Avonburg	60	Till plains	No	—
	Urban land	35	—	Unranked	—
	Rossmoyne	5	Till plains	—	—
BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoE: Bonnell silt loam, 25 to 40 percent slopes	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—

Note that there is some boilerplate report explanation at the beginning, you will need to scroll down to see hydric list as shown above.

The second Option is to add reports to your shopping cart and generate a full-blown soils report. This option is more useful for individual tracts. Here I will go back to the example of using the Select Map Units Function discussed on pages 5 and 6.

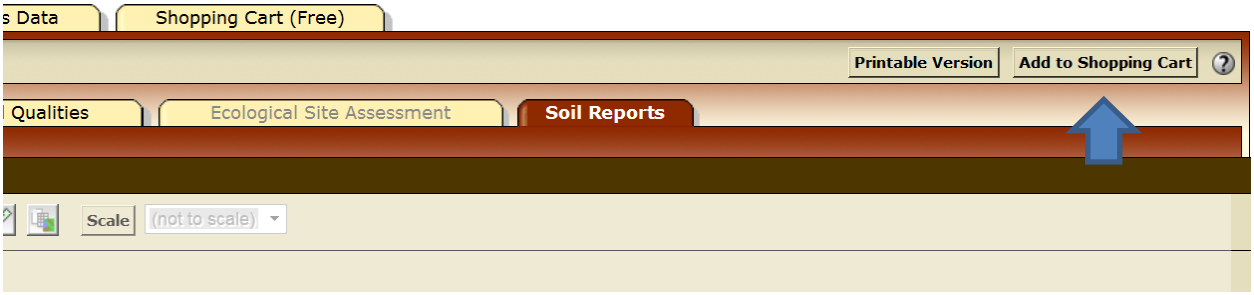
Once you have the report on screen like this;

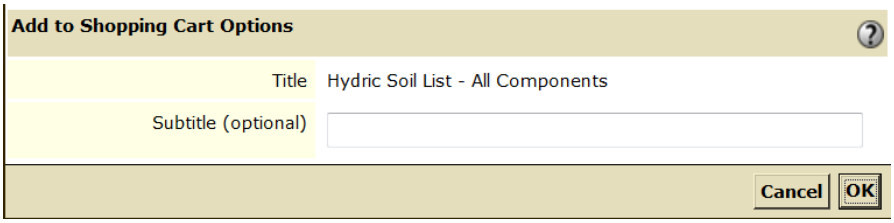
Report — Hydric Soil List - All Components

OH025-Clermont County, Ohio

Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
AwA: Avonburg-Urban land complex, nearly level	Avonburg	60	Till plains	No	—
	Urban land	35	—	Unranked	—
	Rossmoyne	5	Till plains	—	—
BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoE: Bonnell silt loam, 25 to 40 percent slopes	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BrD3: Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
CcB2: Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded	Cincinnati	90	Till plains	No	—
	Rossmoyne	10	Till plains	—	—
	severely eroded areas		—	—	—
CcC2: Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded	Cincinnati	90	Till plains	No	—
	severely eroded areas	5	—	—	—
	Edenton	5	Hills	—	—
	slightly eroded areas		—	—	—

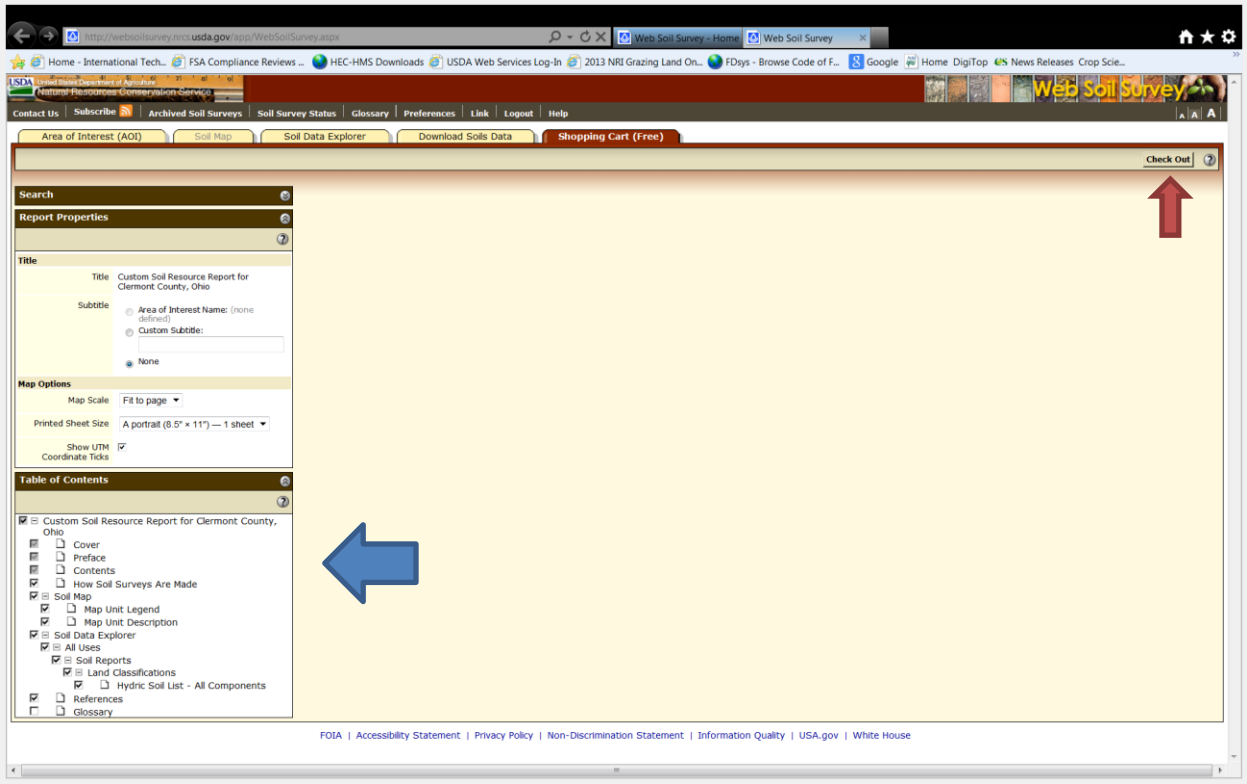
Go to the top right section and click on the Add to Shopping Cart



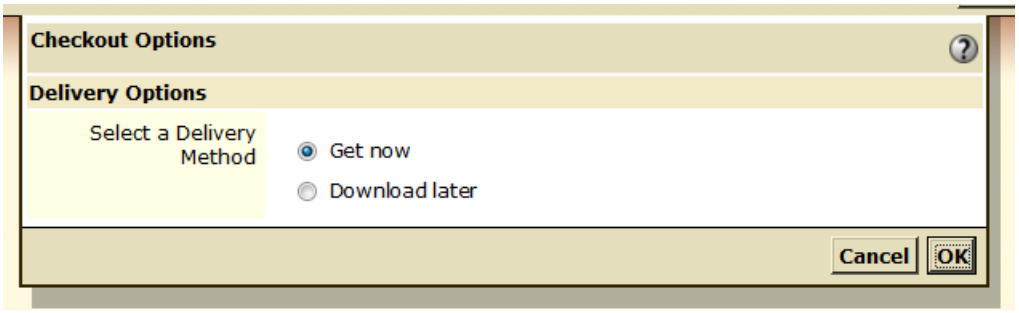


Add a subtitle if desired (I rarely do) then click OK

You can run additional reports as desired and add to Shopping cart in the same way, then go to Shopping Cart Tab (see next page).



You can select/deselect any of the parts of the report you would like (blue arrow) then check out (red arrow).



Small reports you can use the get now function, this allows you to open it in pdf then print and or save.

Larger reports only allow you to use doewnload later, where you will get an email that has a link to download the report.